

25. (Original) An article of manufacture comprising:  
a computer readable medium having computer readable code means embodied thereon,  
said computer readable program code means comprising:  
5 a step to provide a set of sequences, wherein the sequences are not aligned;  
a step to discover a plurality of patterns common to a plurality of the sequences; and  
a step to determine if a candidate sequence comprises a predetermined number of the  
patterns.

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the step of if there are no patterns common to the predetermined threshold of sequences, decreasing the predetermined threshold.

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13. (Canceled)
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18. (Canceled)
- 15 19. (Canceled)
20. (Canceled)
- 20 21. (Canceled)
22. (Canceled)
23. (Original) A system comprising:  
25 a memory that stores computer-readable code; and  
a processor operatively coupled to said memory, said processor configured to implement  
said computer-readable code, said computer-readable code configured to:  
provide a set of sequences, wherein the sequences are not aligned;  
discover a plurality of patterns common to a plurality of the sequences; and  
30 determine if a candidate sequence comprises a predetermined number of the patterns.

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24. (Canceled)